

Please carefully read and save these instructions before attempting to assemble, maintain, install, or operate this product. Observe all safety information to protect yourself and others. Failure to observe the instructions may result in property damage and/or personal injury. Please keep instructions for future reference.

## Important Operating Instructions



# 7 1/4 INCH CIRCULAR SAW WITH LASER

**Model: 7652**

### CALIFORNIA PROPOSITION 65

**WARNING:** You can create dust when you cut, sand, drill or grind materials such as wood, paint, metal, concrete, cement, or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm. Wear protective gear.

**WARNING:** This product or its power cord may contain chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

### CAUTION:

**FOR YOUR OWN SAFETY READ INSTRUCTION MANUAL COMPLETELY AND CAREFULLY BEFORE OPERATING THIS 7-1/4" CIRCULAR SAW WITH LASER**



### SPECIFICATIONS

Voltage: 120 Volts AC  
Frequency: 60Hz, single phase  
Power: 10 Amp  
No Load Speed: 5000rpm  
Cutting depth at 90°: 2-1/2 in  
Cutting depth at 45°: 1-11/16 in  
Arbor size: 5/8"  
Saw blade diameter: 7-1/4 in  
Saw blade mount: 5/8 inch  
Cord length: 6 ft  
Weight: 10 lbs

### ACCESSORIES

- 1 hex key
- 1 24T blade
- 2 batteries
- 1 guide ruler

### WARNING

**Read and understand all instructions.**

Failure to follow all instructions listed below may result in electrical shock, fire and/or serious personal injury.

### SAVE THESE INSTRUCTIONS

#### WORK AREA

- Keep your work area clear,

clean and well lit. Cluttered work surfaces and dark areas invite accidents.

- Keep people not involved in the work, especially children away from the work area while operating a power tool. Distractions can cause you to lose control of the tool.

- Do not operate power tools in an unsafe environment such as explosive atmosphere, flammable liquids, gases and dust. A spark created by a power tool may ignite the fumes or dust.

#### ELECTRICAL SAFETY

- Double insulated tools are equipped with a polarized plug (one blade is wider than the other.) This plug will fit into a polarized outlet only one way. If it does not fit fully in the outlet, reverse the plug and try again. If it still does not fit fully, contact a qualified electrician to install a polarized plug. Do

For warranty purchases, please keep your dated proof of purchase. File or attach to the manual for safekeeping.

not modify the plug in any way. Double insulation eliminates the need for the three wire grounded power cord and grounded electrical system.

- **Avoid body contact with grounded surfaces such as radiators, pipes, ranges and refrigerators.** Risk of electrical shock increases if your body is grounded.

- **Do not operate power tools in the rain or wet conditions.** Water entering a power tool increases the risk of electrical shock.

- **Do not stress the power cord. Never carry the power tool by the cord or disconnect the plug from the receptacle by yanking on the cord. Keep cord away from sharp edges, heat, solvents and oil.** Replace damaged cord immediately. Damaged cords increase the risk of electrical shock.

- **Use outdoor extension cords when operating the power tool outside. Outdoor power cords are marked "W-A" or "W" and are rated for outdoor use.** These cords reduce the risk of electrical shock.

## **PERSONAL SAFETY**

- **Dress appropriately. Do not wear loose clothing or jewelry. Keep long hair pulled back. Keep clothing, hair and**

**gloves away from moving parts.** Loose clothing, jewelry and hair can be snagged in moving parts.

- **Use common sense, stay alert and watch what you are doing while operating a power tool. Do not use tools while under the influence of alcohol, medication, or drugs.** Keep focused on the work at hand while using a power tool to prevent personal injury.

- **Make sure the power switch is in the "OFF" position before plugging it into the receptacle.** This will prevent accidental starting. Carrying tools with your finger on the switch or plugging in the tools with the switch in the "ON" position invites accidents.

- **Remove adjusting tools such as wrenches or keys before turning the tool on.** A wrench or key left attached to a rotating part will fly off and may cause personal injury.

- **Do not overreach while operating a power tool. Keep proper footing and balance at all times.** Good balance and solid footing enables better control in unexpected situations.

- **Always wear appropriate safety equipment. Always wear eye protection while operating a power tool.** Use appropriate dust respirators, hearing protection, hard-hat, face shield or safety shoes as dictated by the work and tool.

## **TOOL USE AND CARE**

- **Secure the work place with clamps or other practical methods to provide a secure work platform.** Holding the work by hand or against your body is not secure and may lead to loss of control.

- **Use the correct tool for the work.** The proper tool will do the work faster and safer.

- **Do not use the tool if the "ON/OFF" switch is not working.** Operating a tool that cannot be controlled by you is dangerous and must be repaired before use.

- **Always disconnect the power cord from the electrical outlet before storing the tool, making adjustments or adding/replacing accessories.** This simple prevention will reduce the risk of accidental starting of the tool.

- **Store the tool in a secure place out of reach of children.** A secure storage location will prevent the unauthorized use by untrained users.

- **Properly maintain tools.** Keep all cutting tools sharp and clean. Remove contaminants from the tool and keep clean. Check for broken parts or binding of moving parts before use. If damaged, have the tool serviced before use. Prevent accidents caused by poorly maintained tools.

- **Use only accessories recommended for your model.** Accessories suitable for one tool may become hazardous when used on another tool.



## SERVICE




- **Tool service, mechanical and/or electrical is to be performed only by qualified repair personnel.** Service performed by unqualified personnel may result in a risk of injury.
- **When servicing a tool, use only identical replacement parts.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electrical shock or injury.

## ADDITIONAL SAFETY INSTRUCTIONS FOR CIRCULAR SAWS

**DANGER:** Keep hands away from cutting area and blades. **NEVER** place your hand behind the saw blade since kickback could cause the saw to jump backwards over your hand. Keep your body positioned to either side of the saw blade.

- Check lower guard for proper closing before each use. If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the lower guard lift lever to make sure it moves freely and does not touch the blade or any other part. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.
- Always observe that the lower guard is in the blade covering position before placing saw

down on bench or floor. Be aware of the time it takes for the blade to stop after switch is released.

- When operating the saw, keep the cord away from the cutting area and position it so that it will not be caught on the work place during the cutting operation.
- Keep second hand on motor housing or additional handle, not near the blade. Do not reach underneath the work, or attempt to remove cut material when blade is moving.
- It is important to support the work properly and  hold the saw firmly  prevent loss  control, which could cause personal injury. **NEVER** hold pieces for cutting in your hand or across your leg.
- Making "Pocket Cut" into existing walls or other blind areas is dangerous. Protruding blade may cut "live wires" or objects that can cause kickback.
- When cutting is interrupted, or blade is binding, release the trigger immediately and hold the saw firmly in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur.
- Use a rip fence or straight edge guide when ripping.
- Avoid cutting through nails. Inspect for and remove all nails from lumber before cutting

• Do not run the saw while carrying it at your side.

• Make certain the depth and bevel adjusting locking levers are tight and secure before making cut

• Do not use damaged or dull blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.

• Always use blades with correct size arbor holes. Never use defective or incorrect blade washers or bolts.

## KICKBACK

- When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator.
- If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.
- Using dull blades or improperly supported work will increase the tendency for kickback.
- Wet lumber, green lumber or pressure treated lumber require special attention during cutting operation to prevent kickback.



## OPERATING INSTRUCTIONS

### ATTACHING THE BLADE

**WARNING:** Always disconnect the plug from the power source before making any adjustments or attaching any accessories.

- Turn blade stud counter-clockwise with the wrench provided and remove blade stud and outer washer. If the shaft moves while attempting to loosen the blade stud, strike the wrench counter-clockwise to jar loose.

- Retract the lower guard all the way up into the upper guard. While retracting the lower guard, check operation and condition of lower guard spring.

- Make sure the saw teeth and arrow on the blade point in the same direction as the arrow on the lower guard.

- Slide blade through slot in the shoe and mount it against the inner washer on the shaft. Be sure the large diameter of the inner and outer washer lay flush against the blade.

- Reinstall outer washer and tighten blade stud finger tight. Place the blade on a piece of scrap wood and hold the saw securely by the upper guard (teeth imbedded in wood) and tighten blade stud until snug with the wrench provided.

### DEPTH ADJUSTMENT

- Disconnect plug from power source. Loosen the depth

adjustment lock screw located between the guard and handle of saw. Hold the shoe down with one hand and raise or lower saw by the handle. Tighten lock screw at the depth setting desired. For minimum splintering, no more than one tooth length of the blade should extend below the material to be cut.

### SAFETY SWITCH

- **WARNING:** When starting the saw, hold it with both hands since the torque of the motor can cause the saw to twist.

- The safety switch is designed to prevent accidental starting. To start the saw, press the release button located on the handle with your thumb and pull the trigger simultaneously.

- To switch the saw off, release the trigger. The safety switch will engage automatically.

### BEVEL ADJUSTMENT

- Before making any adjustments, disconnect the plug from the power source. The shoe can be adjusted up to a 45 degree angle by loosening the bevel adjustment screw in the front of the saw. Adjust the shoe to the desired angle and tighten the bevel adjustment screw. Because of the increase in blade surface contact in the work and decreased stability of the shoe, blade bending may occur. Keep the saw steady and the shoe firm on the work piece.

### LINE GUIDE

- The right side of the notch in

the shoe is the guide for straight 90 degree cuts. The left side of the notch is for 45 degree bevel cuts. The cutting guide notch gives an approximate line of cut since different blade types and thickness alter the line cut. Always make sample cuts in scrap lumber to obtain the actual line cut. To minimize splintering, cut with the good side down.

### LASER GUIDE

**WARNING:** The laser guide fitted to this product is a Class 2 laser. There are no user serviceable parts in the laser guide (apart from battery replacement).

- **DO NOT** allow children or untrained personnel to use this product or the laser guide. It is not a toy!
- **DO NOT** aim the laser beam at people.
- **KEEP** the laser beam path below eye level where practical.

### GENERAL CUTS

- When starting, always hold the saw handle with one hand and the motor housing with the other. Never force the saw but maintain a light and continuous pressure. After completing the cut, allow the saw to come to a complete stop. When cutting is interrupted, resume cutting by allowing the blade to reach full speed and then reentering the cut slowly.

- When cutting across the grain,



the fibers of the wood have a tendency to lift and tear. Moving the saw slowly minimizes this effect.

## POCKET CUTS

- Disconnect the plug from the power supply before making any adjustments. Set the depth adjustment based on the thickness of the material to be cut. Tilt the saw forward with the cutting guide notch on the line drawn for the cut. Raise the lower guard by using the lift lever.

- With the blade barely above the material to be cut, start the saw and allow the blade to come to full speed. Gradually lower the blade unto the material to be cut using the front end of the shoe as a pivot point. When the blade starts cutting, release the lower guard. When the shoe is resting flat on the surface being cut, proceed cutting in a forward direction to the end of the cut. Allow the blade to come to a full stop before removing it from the cut. Never pull the saw backward since the blade will climb out of the cut and kickback will occur. Turn the saw around and finish the cut in a normal manner, sawing forward. Use a jigsaw or a hand saw to finish the cut in the corners, if required.

## CUTTING LARGE SHEETS

- Large sheets or boards require support to prevent

- bends or sags. If you attempt to cut without leveling and properly supporting the piece, the blade will tend to bend, causing kickback.

- Support the panel or board close to the cut. Be sure to set the blade adjustment so that you can cut through the material without cutting into the table or workbench. Suggestion: Use two-by-fours to support the board or panel to be cut. If the piece is too large for the workbench, use the floor with the two-by-fours supporting the wood.

## MAINTENANCE

- To prevent accidents, always unplug the saw from the power source before cleaning or performing any maintenance. The saw may be cleaned most effectively by using compressed air. Always wear safety goggles when using compressed air. If compressed air is not available, use a brush to remove dust and chips from the saw.

- Motor ventilation vents and switch levers must be kept clean and free of foreign matter. Do not attempt to clean by inserting pointed objects through openings.

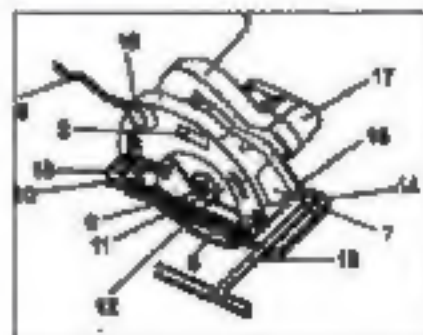
- Certain cleaning agents and solvents damage plastic parts. Some of these are: gasoline, carbon tetrachloride, chlorinated cleaning solvents, ammonia and household cleaners containing ammonia. Do not use any of these to clean the saw.

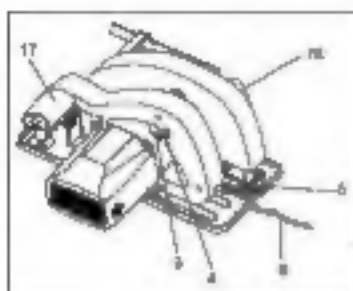
- Should excessive sparking occur, have an authorized service center examine and/or replace the brushes.

- Blades become dull even when cutting regular lumber. A sure sign of a dull blade is the need to force the saw forward instead of guiding it while making a cut. Take the blade to a service center for sharpening.

## DESCRIPTION

- 1.Handle
- 2.Nameplate
- 3.On/off switch
- 4.interlock button for On/off switch
- 5.Lock screw for the depth of cut setting
- 6.Power cable
- 7.Laser guide
- 8.Hinged guard hood
- 9.Allen screw
- 10.Shoe
- 11.Flange
- 12.Saw blade
- 13.Parallel stop
- 14.Lock screw for the parallel stop
- 15.Lock screws for miter cuts
- 16.Dust extractor connection
- 17.Additional handle
- 18.Actuator for the hinged guard hood





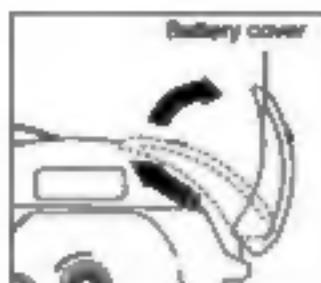
## MAINTAINANCE

1. Keep the cooling vents on the motor housing clean and unobstructed at all times. Blow out any dust and dirt at regular intervals.
2. Have a specialist workshop check the carbon brushes in the event of excessive sparking.
3. Worn carbon brushes are to be replaced only by a specialist workshop.
4. Keep the machine clean at all times.
5. Never use any caustic agents to clean the plastic parts.
6. If ever you discover any damage, consult the exploded drawing and parts list to determine exactly which replacement parts you need to order from our Customer Service Department.

## USING THE LASER GUIDE

The saw is equipped with a battery powered laser guide which is designed to aid alignment of the blade with your cutting line.

1. Slide the battery cover up and then away from the battery compartment.
2. Fit the batteries, being careful to observe the polarity indicated in the battery compartment.
3. Close the compartment cover.
4. The laser guide ■ operated by sliding the switch on the battery cover.

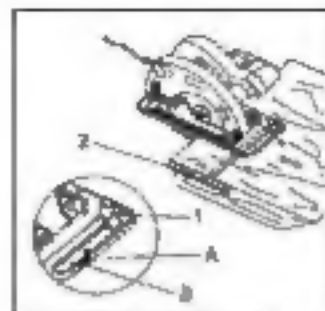


**IMPORTANT!**  
**Wear earplugs and goggles.**

## PARALLEL CUTS

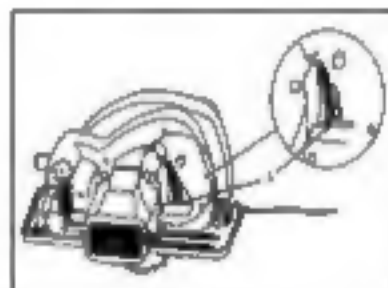
1. Release the lock screw.
2. For 90° cuts, adjust the parallel stop 2 using the scale on groove A, for 45° cuts adjust the parallel stop 2 using the scale on groove B. Observe the saw blade width.
3. Tighten the lock screw.

**IMPORTANT!**  
**First make a trial cut**



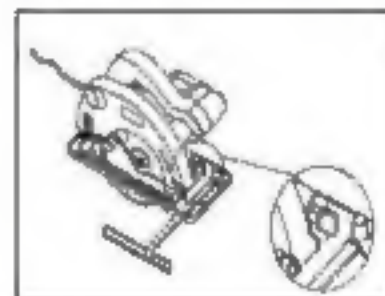
## Adjustment of the cutting depth

1. Release the lock screw.
2. Swing the shoe downwards.
3. Adjust the cutting depth using the scale. The saw teeth must project approx. 2 mm out of the wood.
4. Tighten the lock screw.



## Adjustment of the shoe (cutting angle)

1. Release the 2 lock screws 1.
2. Adjust the shoe to the desired angle between 0 and 45°.
3. Tighten the lock screws 1.



**IMPORTANT!**  
**Remove the plug before making any changes to the circular saw!**

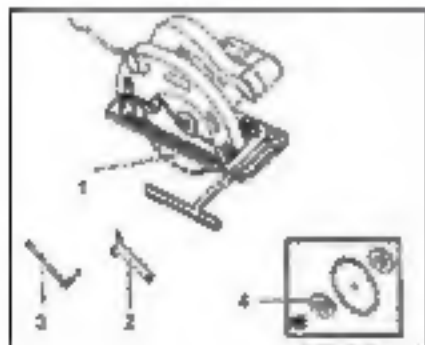


## SWITCHING ON

Before pressing the On/Off switch, check that the saw blade is properly fitted, that the moving parts run smoothly and that the clamping screws are tight.

## CHANGING THE SAW BLADE

1. Open the hinged guard hood 1 and hold
2. Use the face spanner 2 to stop the saw blade from moving.
3. Undo the screw with the socket wrench 3.
4. Remove the flange 4 and the saw blade by dropping down and out.
5. Clean the flange and insert a new blade. Note the direction of rotation (see arrow on the guard hood).
6. Tighten the screw and check for concentricity.



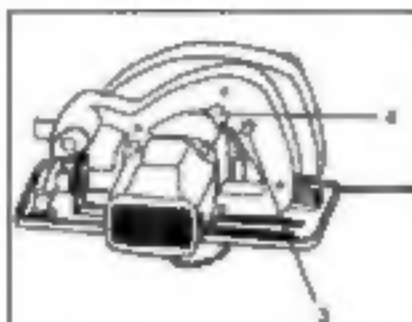
## SWITCH ON AND OFF

### To switch on:

Press the interlock button 3 and the switch 4 simultaneously.

### To switch off:

Release the interlock button and the switch.



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## Limited Manufacturer Warranty

*North American Tool (NAT) Industries makes every effort to ensure that this product meets high quality and durability standards. NAT warrants to the original retail consumer a 1-year limited warranty from the date the product was purchased at retail and each product is free from defects in materials. Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, repairs or alterations, or a lack of maintenance. NAT shall in no event be liable for death, injuries to persons or property, or for incidental, special or consequential damages arising from the use of our products. To receive service under warranty, the original manufacturer part must be returned for examination by an authorized service center. Shipping and handling charges may apply. If a defect is found, NAT will either repair or replace the product at its discretion.*

## DO NOT RETURN TO STORE

For Customer Service:

Email: [feedback@natitools.com](mailto:feedback@natitools.com) or Call 1-800-348-5004

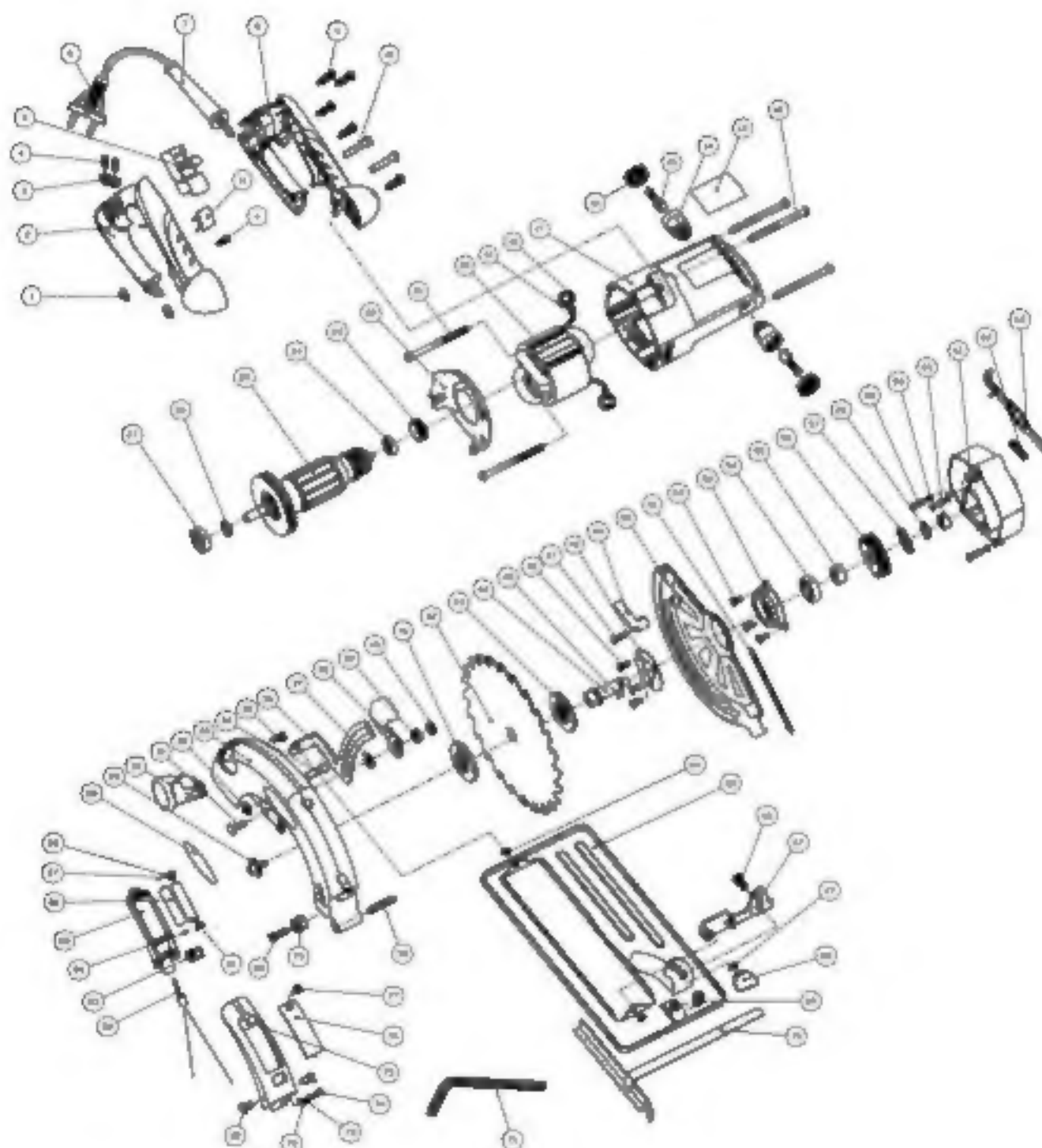




# 7 1/4 INCH CIRCULAR SAW WITH LASER

**Model: 7652**

## Parts List



## Call 1-800-348-5004 for assistance or replacement parts

Please provide the following information:

- Model number
- Part description and number as shown in parts list
- Serial number (if any)

Address any correspondence to:

North American Tool Industries  
84 Commercial Rd  
Huntington, IN 46750

NO.	Description	QTY.	NO.	Description	QTY.
1	Hexagon M5	2	45	Woodruff key	1
2	Right handle	1	46	Cross CSK screw	3
3	Cord Plate	1	47	Phil pan head screw M4x10	1
4	Phil pan head screw ST4 2X14	3	48	Head-down plate	1
5	Switch	1	49	Wrench for active guard	1
6	Cable and plug	1	50	Guard active	1
7	Ball-shaped sleeve	1	51	Reposition spring	1
8	Left Handle	1	52	Cross CSK screw	3
9	Phil pan head screw ST4 2X16	5	53	Fine cover	1
10	Phil pan head screw M5x22	2	54	Bearing 6001z	1
11	Capacitor	1	55	Steel sleeve	1
12	Phil pan head screw M5x40	3	56	Gear	1
13	Name plate	1	57	Wave washer	1
14	Brush Cap	2	58	Phil pan head screw M5x14	3
15	Carbon brush	2	59	Spring washer	3
16	Brush cover	2	60	Oil-retaining Bearing	1
17	Housing	1	61	Gear Housing	1
18	Connecting spring	2	62	Trig spring	1
19	Cord Clamp	2	63	Self-lock piece	1
20	Stator	1	64	Rivet	2
21	Phil pan head screw ST4 2X80	2	65	Sole plate	1
22	in Buffer Plate	1	66	Square nut bolt	1
23	Bearing Sleeve	1	67	Cutting angle frame	1
24	Bearing 607z	1	68	Butterfly Nut	1
25	Rotor	1	69	Scale press screw	1
26	Circlips for shaft 12	2	70	8th Scale	1
27	Bearing 6000z	1	71	Hexagon spanner	1
28	Brand	1	72	Flat washer	1
29	Hexagon washer screw	1	73	Spring washer	1
30	Dust pipe	1	74	Phil pan head screw M4x10	1
31	Square nut bolt	1	75	Laser housing	1
32	Hexagon Nut M4	1	76	Laser cap	1
33	Fixed cover	1	77	Phil pan head screw ST2 BxB	1
34	Phil pan head screw M4x30	1	78	Spring Pin	1
35	Phil pan head screw ST4 2X10	3	79	Locating circlip	1
36	Depth frame	1	80	Cross CSK screw	1
37	Washer	2	81	Spring seat	1
38	Depth Spanner	1	82	Laser	1
39	Special net	1	83	Laser Switch	1
40	Circlips for shaft 10	1	84	Connecting piece	1
41	Upper flange	1	85	Laser line fixture	1
42	Saw blade	1	86	Battery AAA	2
43	Lower flange	1	87	Spring pedestal	1
44	Output spindle	1	88	Turnform Spring	1